

MEHRDAD ESMAEILPOUR

Software engineer, writer and something of a dreamer

Tehran

esmaeilpour.mehrdad@gmail.com

Software engineering graduate with an emphasis in designing and implementing micro services. Expert in Python, Golang and PHP.

Willing to relocate: Anywhere



WORK EXPERIENCE

R&D Software Engineer

Respina Networks and beyond - Tehran/Tehran

October 2019 to Present

Fields:

- Online charging system
- Session Initiation Protocol
- Soft-switches
- Voice Over IP
- Identity and access management
- Single sign in

Summary:

- Maintain and extend the existing ARI (Asterisk RESTful Interface) controller using Python
- Maintain and fix the existing OCS (Online charging system) and billing management using Python/Redis/MySQL
- Research about a new Real-time OCS to replace the existing system
- Design and develop a new billing management system using Python/Redis/PostgreSQL alongside with a third party OCS
- Research about integrating file/object storage solutions with the existing subsystems
- Design and develop a new file service to store data in database instead of file system using Go/MongoDB
- Integrate a third party object storage solution to the existing file service
- Research about integrating notification center solutions with the existing subsystems
- Research about IAM (Identity and access management) and SSO (Single sign-on) solutions and the ways of integrating them with existing subsystems
- Design highly available architecture for rating and billing services
- Design and develop a MFA micro-service using Go/Postgres with Gin framework

Technologies:

- Programming languages and frameworks: Python/Erlang/Golang/JavaScript/GinGonic/Django
- Databases and in-memory data structures: CouchDB/MongoDB/MariaDB/PostgreSQL/Redis/Memcached
- Open source softwares, operating systems and etc: Asterisk/Kamailio/Docker/CentOS/Ubuntu/Debian/MX Linux

Scrum Master

Sepehr Mahan Tech - Tehran/Tehran

August 2019 to September 2019

Manage and coordinate sprint planning meetings, daily stand-ups, the end-of-sprint demo, retro and keeping track of sprint's velocity

Backend Developer

Sepehr Mahan Tech - Tehran/Tehran

May 2019 to September 2019

- Maintain, extend and improve the existing Hamsoo system
- Design and develop a service bus (ESB) to integrate the system with external APIs and services with the focus on REST APIs, SOAP, Microsoft SharePoint, Oracle database, MySQL and MSSQL using python and PHP

Researcher

Computer Emergency Response Team in Guilan University - Rasht/Guilan

March 2018 to May 2019

- Research on the usage of deep learning on network security
- Research on vulnerability of websites

R&D Software Engineer

Computer Emergency Response Team In Guilan University - Rasht/Guilan

March 2018 to May 2019

- Design and develop a web portal to manage CWEs using Oxwall framework
- Design and develop a web portal for Guilan university's APA center using PHP/MySQL
- Design and develop a web portal for Guilan university's CSCL Lab

Full Stack Developer

Fazgostran Tabadol Electronic (Fatasan) - Rasht/Guilan

March 2018 to May 2019

- Develop and extend the existing web applications used in Anzali Free Zone Organization
- Design and develop a subsystem for added value management in Anzali Free Zone Organization using PHP/MySQL/CSS/Javascript

Web Developer (Freelance)

Ponisha.com

October 2017 to February 2018

- Developing/Customizing WordPress based plugins
- Website maintenance using PHP and MySQL
- Design and develop small to medium sized web applications

Backend Developer

Fazgostran Tabadol Electronic (Fatasan) - Rasht/Guilan - Rasht/Guilan

September 2015 to February 2016

- Design and develop a custom crawler/parser as a subsystem of a custom search engine using C++/CLI and Oracle DB

Software Developer (Freelance)

Ponisha.com

May 2014 to October 2015

- Developing windows applications using C# and VB.NET
- On-page Search engine optimization
- Website maintenance using PHP and Python



EDUCATION

Bachelor's in Software Engineering

Guilan University - Rasht/Guilan

September 2011 to July 2015



SKILLS

- **Git (5 years)**
- **APIs (4 years)**
- **Linux (5 years)**
- **MySQL (5 years)**
- **Python (3 years)**
- **Docker (1 year)**
- **MongoDB (1 year)**
- **Shell Scripting**
- **Django (2 years)**
- **PHP**
- **JavaScript (3 years)**
- **PostgreSQL (3 years)**
- **Redis (3 years)**
- **C++**
- **C#**
- **Java**
- **REST (3 years)**
- **Agile (2 years)**
- **Golang (1 year)**



LINKS

<https://medium.com/@mehrdadep>

<https://twitter.com/mehrdadep>

https://www.goodreads.com/author/show/17102945.Mehrdad_Esmaeilpour

<https://www.linkedin.com/in/mehrdadep/>



MILITARY SERVICE

Branch: Police department

Service Country: Iran

Rank: Sergeant major

February 2016 to November 2017



CERTIFICATIONS AND LICENSES

The Complete Full-Stack JavaScript Course!

May 2020 to Present

Link: <https://www.udemy.com/certificate/UC-ebfb6ed7-69f8-4b4c-bd44-482a5ccb8e63/>

The Complete Python 3 Course: Beginner to Advanced!

November 2019 to Present

Link: <https://www.udemy.com/certificate/UC-J3CP2M9J/>

Complete Python Bootcamp : Go Beginner to Expert in Python 3

April 2020 to Present

Link: <https://www.udemy.com/certificate/UC-97fc3b17-20e5-4707-aaed-ae96d5ee71c5/>

Internet and Web Development Fundamentals

April 2020 to Present

Link: <https://www.udemy.com/certificate/UC-a6bd39ba-6c8d-49f3-9173-91451b41de39/>

Go: The Complete Developer's Guide (Golang)

April 2020 to Present

Link: <https://www.udemy.com/certificate/UC-28184216-b8e9-42f1-a096-e836d2128f7b/>



ASSESSMENTS

Programming Fundamentals — Expert

October 2020

Designed by engineering managers and real-world employers, this test gives you hard data points to evaluate technical competency.

Full results: [Expert](#)

Indeed Assessments provides skills tests that are not indicative of a license or certification, or continued development in any professional field.



PUBLICATIONS

A Study of deep learning models for Network Intrusion Detection (In Persian)

https://cicis.khu.ac.ir/files/site1/files/z_Booklet_final.pdf

January 2019

Examine the process of converting an advanced search engine to automatically support a set of dynamic web services (In Persian)

<https://www.sid.ir/fa/seminar/ViewPaper.aspx?id=37692>

January 2016